

# Setup Guide — CSVEQ 100 D

This guide provides basic instructions for an experienced installer to set up and operate the Extron® CSVEQ 100 D Line Driver.

**CAUTION** Installation and service must be performed by authorized personnel only.

**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the user manual and installation instructions before connecting the product to the power supply.

## Step 1 — Turn off the line driver and input/output devices

Turn the input and output devices off and unplug their power cords. Verify that the line driver is disconnected from the power source before proceeding.

## Step 2 — Attach video output cables

- Connect a composite video output device to the green cable (7).
- Connect the luma of an S-video output device to the white cable (7).
- Connect the chroma of an S-video output device to the yellow cable (7).

## Step 3 — Attach video input cables

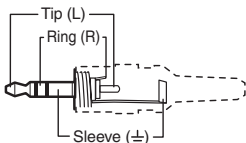
- Connect a composite video input source to the RCA video input connector (2).
- Connect an S-video input source to this 4-pin mini DIN connector (3).

## Step 4 — Connect audio input/output

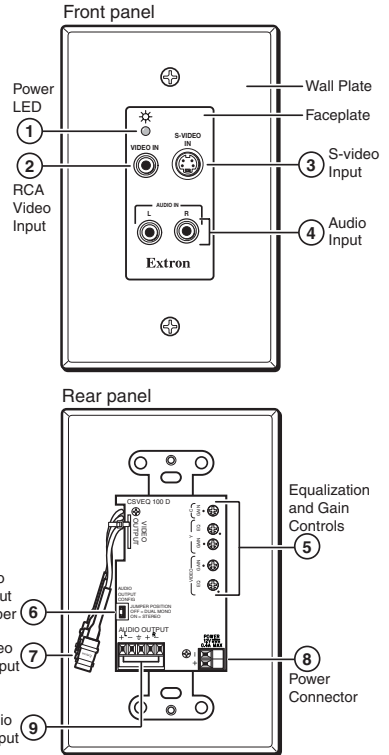
- **For audio output**, wire a balanced or unbalanced audio output device to the 3.5 mm, 5-pole, direct insertion captive screw connector (9). See figure 3 for information on how to wire the audio output connector.
- **For audio input**, connect an unbalanced stereo audio source to the left and right RCA connectors (4). Wire the connector as shown in figure 2.

### NOTE

The audio output wiring and the audio output jumper (6) setting must match. For best results, wire the output for balanced audio.



**Figure 2 — Audio input wiring**



**Figure 1 — Front and rear panel view**

Balanced Stereo	Unbalanced Stereo
<b>NOTE</b> Set audio output jumper to stereo. 	<b>NOTE</b> Set audio output jumper to stereo. 
Balanced Mono	Unbalanced Mono
<b>NOTE</b> Use either the left or the right channel. Set audio output jumper to dual mono. 	<b>NOTE</b> Use either the left or the right channel. Set audio output jumper to dual mono. 
<b>CAUTION</b> Connect the sleeve to ground (Gnd). Connecting the sleeve to a negative (-) terminal will damage the audio output circuits. 	

**Figure 3 — Audio output wiring**

# Setup Guide — CSVEQ 100 D (cont'd)

## Step 5 — Power on the line driver and input/output devices

Wire the power supply (see figure 4) and connect it to the power connector (⑧). When power is applied to the unit, the front panel LED (①) lights.

Connect the power cords of the input and output devices and turn them on. The picture should appear and sound should be audible.

**CAUTION**

*Always use a power supply supplied by or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product. Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 75 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to building structure or similar structure.*

**Figure 4 – Power supply wiring**

*This product is intended to be supplied by a Listed Power Unit marked “Class 2” or “LPS”, rated 12 VDC, 1 A minimum.*

## Step 6 — Adjust video gain and equalization

While watching the display, adjust the video gain and equalization (⑤) by using the rotary gain and equalization (EQ) control potentiometers (see figure 5). Make all adjustments using a small screwdriver. For a more precise setting, use an oscilloscope or a waveform monitor connected to the far end of the output cable.

If using very short output cables:

- Set all potentiometers to the default setting (the arrow on the control pointing to the dot beside it, as shown in figure 5).

If using longer output cables:

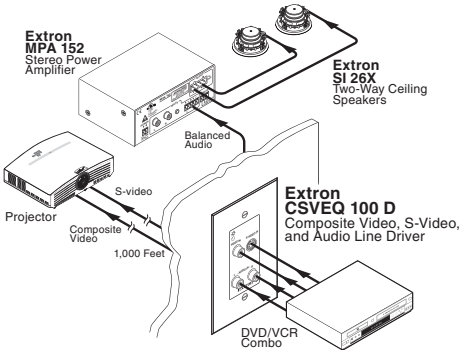
- Supply the color bars test signal to the input (Recommendation: use an Extron VTG 300 Video Test Generator to generate the test signal).
- Adjust the gain controls for the output until the signal level at the far end is the same as the input (or the display shows the correct brightness and contrast).
- Adjust the EQ control for the output so that no overshoot or round front corner appears at the far end on the oscilloscope or you see a sharp picture with no smearing.



**Figure 5 – Equalization and gain controls**

## Step 7 — Mount the line driver

Make any cabling adjustments before mounting the line driver as the cables may be inaccessible afterwards. Mount the line driver. For mounting information, see “Installing the CSVEQ 100 D” in the CSVEQ 100 D User’s Manual.



**Figure 6 – Application example**

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+1.714.491.1500 +1.714.491.1517 FAX	+1.919.863.1794 +1.919.863.1797 FAX	+31.33.453.4040 +31.33.453.4050 FAX	+65.6383.4400 +65.6383.4664 FAX		+86.21.3760.1568 +86.21.3760.1566 FAX		Rev. A 03 10